

Name: _____ Date: _____ Class: _____

Graphing Logarithmic Functions as the Inverses of Exponential Functions

Steps:

1. Re-write function as $f(x) = \frac{\log(\text{argument})}{\log(\text{base})}$
2. Type into table in calculator.
3. Graph points from table.

Examples:

1. $f(x) = \log_2(x)$

$f(x) =$

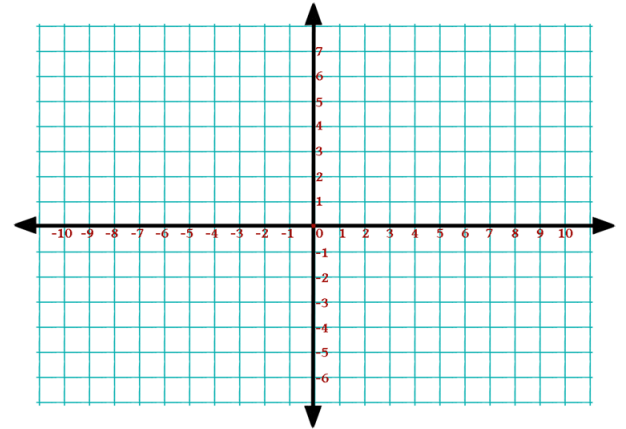
Domain _____

Range _____

y-intercept _____

asymptote _____

x	y
-2	
-1	
0	
1	
2	



2. $f(x) = \log_3(x+2) - 1$

$f(x) =$

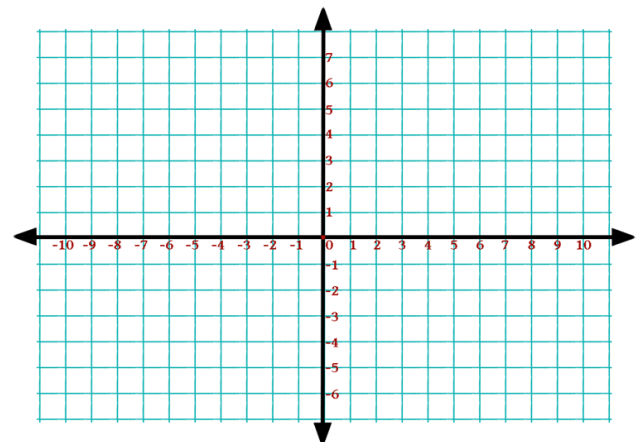
Domain _____

Range _____

y-intercept _____

asymptote _____

x	y
-3	
-2	
-1	
0	
1	



3. $f(x) = \log_{\frac{1}{3}}(x - 2)$

$f(x) =$

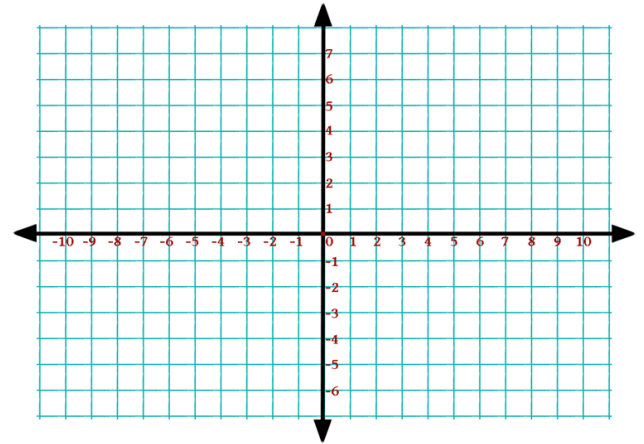
Domain _____

Range _____

y-intercept _____

asymptote _____

x	y
-2	
-1	
0	
1	
2	



4. $f(x) = \log_5(x + 2) - 1$

$f(x) =$

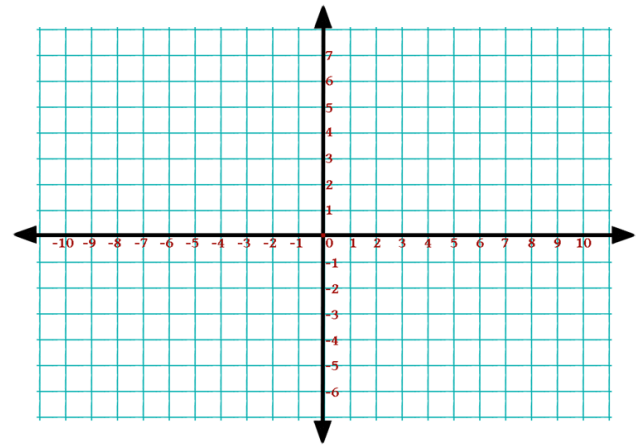
Domain _____

Range _____

y-intercept _____

asymptote _____

x	y
-3	
-2	
-1	
0	
1	



5. $f(x) = \ln x + 3$

$f(x) =$

Domain _____

Range _____

y-intercept _____

asymptote _____

x	y
1	
2	
3	
4	
5	

